Milwaukee

Chrome Vanadium Open End & Tappet

Wrenches

"Blue Points"

Hammer-Forged Chisels and Punches

MILWAUKEE TOOL & FORGE COMPANY
FACTORY: SOUTH MILWAUKEE, WISCONSIN

MOTOR TOOL SPECIALTY COMPANY
EXCLUSIVE DISTRIBUTORS :: CHICAGO, ILLINOIS
BRANCHES EVERYWHERE

SHOWING SOME OF THE
REMARKABLE TESTS
THAT ARE MADE TO PROVE THAT
MILWAUKEE
OPEN END WRENCHES
ARE THE STURDIEST AND
STRONGEST WRENCHES BUILT

FORGED OF CHROME VANADIUM STEEL — ESPECIALLY HEAT TREATED — AND MILLED TO ACCURATE OPENINGS, FOR ALL S.A.E. AND U.S.S. NUTS AND CAP SCREWS.

THERE has been just one object in mind in making MILWAUKEE Open End and Tappet Wrenches.

The distributor, with branches all over the country, and a big force of expert tool salesmen, calling on mechanics daily, and in close touch with their needs and requirements, said to the factory — "Forget Competition — forget

price—forget precedent—just take our order to make the

Best Wrench In The World

— and we will sell them regardless of competition and regardless of price." The result has justified our confidence in the demand for tools of the highest class. Mechanics everywhere have tested them under the severest conditions and have nothing but praise for them. The following claims sound wild and extravagant until you have seen it proven conclusively that—

It Is Impossible

to break head
to spread the jaws
to bend them
to injure them
to destroy their everlasting efficiency.

with five times the strain under which any ordinary wrench of similar size will bend, break, or spread.

They are made of Chrome Vanadium Steel of the highest grade, and of special analysis, each lot selected and bought under mill guarantee. They are forged,

milled, and heat treated in our own plant, and by methods that are the result of careful, painstaking, laboratory and service tests, in an earnest effort to make a tool of the utmost excellence. Judge the result by this altogether

Unusual Guarantee

for tools of this character. We will replace any MILWAUKEE wrench that breaks, spreads, or otherwise becomes unserviceable in any ordinary usage for a period of one year from the date of purchase. The prices are high—we know that—but the man who knows quality knows that quality costs. They will outlast and outlive any wrench on the market. These are the kind of tools that

Become Heirlooms

Due to the high quality of the steel and superior handling and heat treating, MILWAUKEE Wrenches give the two essentials that the mechanic requires for his daily work, viz, thinner jaws, greater leverage, and the sturdiness to stand up under every service requirement.

Call for "MILWAUKEES"

"Milwaukee" Auto Mechanics' Open End Wrenches

Chrome Vanadium Steel

Number	Milled Openings	Thickness of Heads	Length Over All	Fits SAE Nuts and Cap Screws	Fits USS Nuts (Bolt Size)	Fits USS Cap Screws	List Price, Each
1416	7/16	3/16	5 1/2	1/4		1/4	.70
	1/2	3/16	5 1/2	5/16	1/4	5/16	
1418	7/16	7/32	6	1/4		1/4	.75
	9/16	7/32	6	3/8		3/8	
1618	1/2	1/4	6 1/2	5/16	1/4	5/16	.80
	9/16	1/4	6 1/2	3/8		3/8	
1920	19/32	9/32	7		5/16		.90
	5/8	9/32	7	7/16		7/16	
2022	5/8	5/16	7 1/2	7/16		7/16	1.05
	11/16	5/16	7 1/2		3/8		
2425	3/4	11/32	8	1/2		1/2	1.10
	25/32	11/32	8		7/16		
2428	3/4	3/8	8 3/4	1/2		1/2	1.35
	7/8	3/8	8 3/4	9/16	1/2	5/8	
3034	15/16	1/2	11	5/8			2.05
	1 1/16	1/2	11	3/4	5/8		

Milwaukee Auto Mechanics Open End Wrenches in Sets

No. MR-8—

Consisting of one each Nos. 1416, 1418, 1618, 1920, 2022, 2425, 2428, 3034, packed in cardboard carton. MR8–List price per set $8.70

If canvas kit is desired, add 40 cents net to above price.

No. MR-5—

A smaller set consisting of one each of the following most used sizes–Nos. 1416, 1418, 1618, 1920, 2425, packed in cardboard carton. MR5–List price per set $4.25

If canvas kit is desired, add 30 cents net to above price.

Milwaukee Chrome Vanadium Tappet Wrenches

In our calls on mechanics, we were frequently asked why we did not put on the market Real Tappet Wrenches, ones that were thinner and longer, also stronger and with smaller heads, and better than any tappet wrenches they could buy.

With these ideas in mind, we went ahead and made them, tappet wrenches that are:

Stronger—Longer—Thinner—Made of better material, a steel made to our own specifications—Will stand greater strains—Have more clearance—Milled more accurately in the openings

than any other tappet wrenches we have been able to buy anywhere. MILWAUKEE Tappet Wrenches are made to mechanic's specifications.

Number	Milled Openings	Thickness of Heads	Fits SAE Nuts and Cap Screws (Bolt Size)	Length Over All	List Price, Each
T1213	3/8 13/32	1/8 1/8	—	6½	.85
T1416	7/16 ½	5/32 5/32	¼ 5/16	6¾	.85
T1820	9/16 5/8	11/64 11/64	3/8 7/16	7	.90
T2224	11/16 ¾	3/16 3/16	½	7½	1.00
T2628	13/16 ⅞	7/32 7/32	9/16	8	1.15
T3032	15/16 1	7/32 7/32	5/8 11/16	8	1.20

Milwaukee Chrome Vanadium Tappet Wrenches in Sets

No. MTR-12—

Set consisting of two each of the following six sizes (12 wrenches in set) Nos. T1213, T1416, T1820, T2226, T2428 and T3032, packed in cardboard carton. List Price, per set $11.90

If canvas kit is desired, add 25 cents net.

No. MTR-10—

Set consisting of two each of the following five sizes, (10 wrenches in set) Nos. T1416, T1820, T2224, T2628, and T3032, packed in cardboard carton. List price per set $10.20

If canvas kit is desired add 25 cents net.

No. MTR-8—

Set consisting of two each of the following four sizes, (8 wrenches in set) Nos. T1416, T1820, T2224, and T2628, packed in carton. MTR8-List price per set $7.80

If canvas kit is desired, add 25 cents net.

Milwaukee Blue Points Chisels and Punches Hammer Forged

Illustrating part of the hammer-forged process as practiced in our plant. Note the small size furnace used. This compels the heating of but a few tools at a time, and insures that each will go under the mechanical hammer at approximately the same temperature. Photograph taken while hammer-forging a run of pin punches.

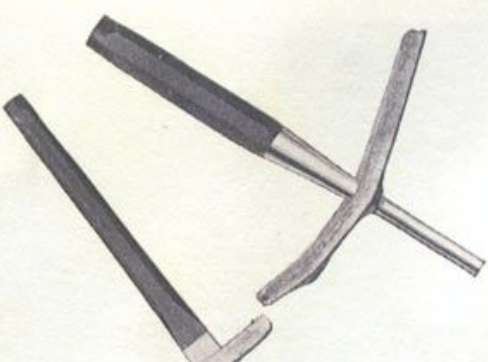
Milwaukee Blue Points

BLUE POINTS are the answer to a nation-wide demand on the part of better mechanics for something finer in tools of this kind. Everywhere, our salesmen who are in personal daily contact with automobile mechanics from coast to coast, have come face-to-face with this demand. Put in the mechanics' almost universal language, it takes this next-to-invariable form, "Have you any chisels and punches that are worth a damn?" Blue Points fill the bill!

Milwaukee Blue Points are ***hammer***-forged —***NOT drop***-forged! Each is formed individually under a power-driven hammer which accomplishes mechanically what the blacksmith does by hand—only more accurately and perfectly. Under this process, steel can be formed when at a low heat.

Carbon—that property of raw steel which gives it lasting qualities—is not "burned" out. Repeated blows tend to refine the grain of the steel and further lengthen the tool's life. Following this forming process, each Blue-Point is ***individually*** heat-treated, hardened, tempered, ground.

Even the two ends of the same tool undergo different heat-treatment, as the point and the butt are required to do different work. Now contrast such a careful, special process with that of drop-forging. Stock must be run to a high heat so it will shape into a tool with a single blow. A far less complicated process than hammer-forging, to be sure. But a high percentage of the carbon is "heated-out" — and with it goes all possibility of the tool having a long life.

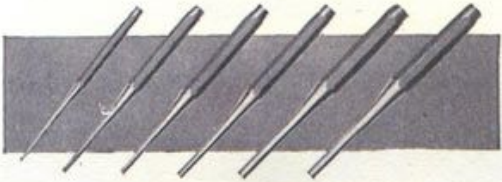


Blue Point Punch and Chisel Driven Cold Through Quarter-inch Wagon Tire Steel!

Never, to our knowledge, has a punch or chisel ever been put to such a test before. But most remarkable about it all is the fact that even under such abuse, not a sign of a "burr" will appear on a Blue-Point tool. The punch holds its glass-smooth point and perfect nose; the chisel is as keen as new. The real proof of Blue-Point quality is in the using.

Here's the Year-Guarantee that Backs Every "Blue Point"

"We unreservedly guarantee the quality of 'Blue-Points'." "We will replace, free of charge, any tool that fails while doing any work for which such a tool was intended; provided that the tool has not been heated to a temperature that will draw its temper (500 degrees F or higher)." "This guarantee is good for one year from date of purchase."



Blue Points Pin Punches

No.		Stock	Length	Point	List Each
610	Pin Punch	5/8"	7 "	5/16"	$ .80
608	Pin Punch	1/2"	6 3/4"	1/4"	.80
606	Pin Punch	1/2"	6 1/2"	3/16"	.70
605	Pin Punch	7/16"	6 "	5/32"	.70
604	Pin Punch	3/8"	6 "	1/8"	.65
603	Pin Punch	5/16"	5 3/4"	3/32"	.65

No. BPP. punch set consisting of one each of the above pin punches, six in set, packed in cardboard carton. List price per set....*$ 4.30*

Blue Points Long Tapered Punches

No.	Stock	Length	Point	List
912.....	5/8"	9 1/2"	5/16"	$ .90
910.....	1/2"	9 "	1/4"	.85
908.....	7/16"	8 1/2"	3/16"	.80
905.....	3/8"	8 "	5/32"	.75

No. LTP—Set consists of one each of the above four punches, packed in cardboard carton. List price, per set.....*$ 3.30*

Blue Points Flat Chisels

No.	Tool	Stock	Length	Edge	List
824	Flat Chisel	5/8"	7 "	3/4"	$ .70
820	Flat Chisel	1/2"	6 1/2"	5/8"	.65
816	Flat Chisel	7/16"	6 "	1/2"	.65
812	Flat Chisel	3/8"	5 1/2"	3/8"	.60

No. BPC—Chisel set, consisting of one each of the above four chisels, packed in cardboard carton. List price, complete.....*$ 2.60*

Extra Heavy Cold Chisels

No.	Stock	Length	Edge	List
1020	3/4"	12"	5/8"	$1.25
1024	7/8"	13"	3/4"	1.65
1032	1"	14"	1 "	2.10

Set No. LFC—1 of each size Nos. 1020, 1024, 1032, packed in cardboard carton, List ..*$5.00*

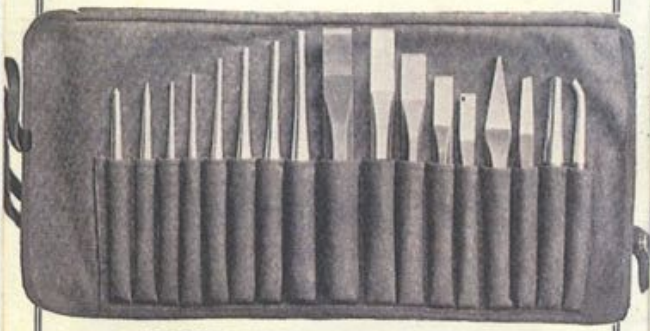
Blue Points Chisels and Punches

No		List
4C	Center Punch $\frac{3}{8}$" x 5"	$ .55
5P	Prick Punch, $\frac{3}{8}$" x 5"	.55
16	Round Nose Chisel, $\frac{1}{2}$" x 6"x $\frac{1}{8}$pt	.70
15	Diamond Point Chisel, $\frac{1}{2}$"x6"—$\frac{1}{8}$ pt..	.70
14	Cape Chisel, $\frac{1}{2}$" x 6$\frac{1}{2}$"—$\frac{5}{16}$" edge..	.75
17	Oil Groover, $\frac{3}{8}$" x 6"	.75

Blue Points Rivet Busters

	Stock	Length	List
No. 7.....	$\frac{3}{4}$"	7"	$1.00
No. 12.....	$\frac{3}{4}$"	12"	1.30
No. 16.....	1$\frac{1}{4}$"	16"	2.40

These are the strongest tools of this kind made. Guaranteed not to spring at heel. We can also furnish in other lengths and cutting edge, if desired. Prices cn application.



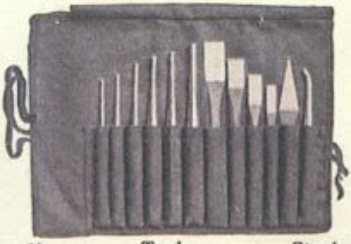
MASTER CHISEL AND PUNCH SET

Master Chisel and Punch Set

No. MCP—Set comprises the following 17 tools, packed in handy, heavy brown canvas case:

No.	Tool	Stock	Length	Size	List
4C	Center Punch.....	3/8"	5 "		$ .55
5P	Prick Punch.....	3/8"	5 "		.55
603	Pin Punch.....	5/16"	5 3/4"	3/32"	.65
604	Pin Punch.....	3/8"	6 "	1/8"	.65
605	Pin Punch.....	7/16"	6 1/4"	5/32"	.70
606	Pin Punch.....	1/2"	6 1/2"	3/16"	.70
608	Pin Punch.....	1/2"	6 3/4"	1/4"	.80
610	Pin Punch.....	5/8"	7 "	5/16"	.80
7RB	Rivet Buster.....	3/4"	7 "	3/4"	1.00
824	Flat Chisel.....	5/8"	7 "	3/4"	.70
820	Flat Chisel.....	1/2"	6 1/2"	5/8"	.65
816	Flat Chisel.....	7/16"	6 "	1/2"	.65
812	Flat Chisel.....	3/8"	5 1/2"	3/8"	.60
14	Cape Chisel.....	1/2"	6 1/2"	5/16"	.75
15	Diamond Pt. Chisel	1/2"	6 "	5/16"	.70
16	Rd. Nose Cent....	1/2"	6 "	1/8"	.70
17	Oil Groover.....	3/8"	6 "		.75

MCP, Price, Complete, with canvas kit. ***$12.50***



"Senior" Chisel and Punch Set

No. SCP — Comprises the following 12 tools, packed in handy, heavy brown canvas case:

No.	Tool	Stock	Length	Size	List
603	Pin Punch	5/16"	5 3/4"	3/32"	$ .65
604	Pin Punch	3/8"	6 "	1/8"	.65
605	Pin Punch	7/16"	6 1/4"	5/32"	.70
606	Pin Punch	1/2"	6 1/2"	3/16"	.70
608	Pin Punch	1/2"	6 3/4"	1/4"	.80
610	Pin Punch	5/8"	7 "	5/16"	.80
824	Flat Chisel	5/8"	7 "	3/4"	.70
820	Flat Chisel	1/2"	6 1/2"	5/8"	.65
816	Flat Chisel	7/16"	6 "	1/2"	.65
812	Flat Chisel	3/8"	5 1/2"	3/8"	.60
14	Cape Chisel	1/2"	6 1/2"	5/16"	.75
17	Oil Groover	3/8"	6 "	1/8"	.75

Price, Complete with canvas kit.....***$ 9.00***

"Junior" Chisel and Punch Set

No. JCP— Comprises the following 8 tools packed in handy, heavy brown canvas case:

No.	Tool	Stock	Length	Size	List
603	Pin Punch	5/16"	5 3/4"	3/32"	$ .65
604	Pin Punch	3/8"	6 "	1/8"	.65
606	Pin Punch	1/2"	6 1/2"	3/16"	.70
608	Pin Punch	1/2"	6 3/4"	1/4"	.80
820	Flat Chisel	1/2"	6 1/2"	5/8"	.65
816	Flat Chisel	7/16"	6 "	1/2"	.65
812	Flat Chisel	3/8"	5 1/2"	3/8"	.60
17	Oil Groover	3/8"	6 "	1/8"	.75

Price, Complete with canvas kit.....***$ 5.85***

For many years we have been making tools for industrial firms, such as Railroads, Foundries, Automobile Manufacturers, Public Service Companies, Telephone Companies, Street Railways, etc.

Among such tools are:

Pneumatic chisels of all shapes and sizes
Flat hand chisels
Pneumatic and hand Calking Tools
Star drills
Cold cutters
Hot cutters
Flogging chisels
Rivet busters
Chipping hammers
Cupalo picks
Structural wrenches
Larson pincers
Standard cutting pincers

• • •

These are just a few of the tools we are making. Quotations gladly furnished on application.

MOTOR TOOL SPECIALTY
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